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CLAIMS:

What is claimed is:

- 1 1. A method for managing a cache in a distributed
2 caching environment, the method comprising:
3 receiving a cache notification event from a sending
4 device, wherein the cache notification event includes
5 time relative information and a clock value for the
6 sending device;
7 determining a clock delta by determining a
8 difference between the local clock and the clock value of
9 the sending device; and
10 adjusting the time relative information in the cache
11 notification event based upon the clock delta.
- 1 2. The method of claim 1, further comprising:
2 validating the cache notification event.
- 1 3. The method of claim 2, further comprising:
2 discarding the cache notification event if the cache
3 notification event is invalid.
- 1 4. The method of claim 1, wherein the cache
2 notification event is one of an add event, an update
3 event, and an invalidation event.
- 1 5. The method of claim 1, wherein the time relative
2 information is an expiration value.

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1 6. The method of claim 5, wherein the expiration value
2 is one of a discrete time and an amount of time relative
3 to a created time.

1 7. An apparatus for managing a cache in a distributed
2 caching environment, the apparatus comprising:
3 means for receiving a cache notification event from
4 a sending device, wherein the cache notification event
5 includes time relative information and a clock value for
6 the sending device;
7 means for determining a clock delta by determining a
8 difference between the local clock and the clock value of
9 the sending device; and
10 means for adjusting the time relative information in
11 the cache notification event based upon the clock delta.

1 8. The apparatus of claim 7, further comprising:
2 means for validating the cache notification event.

1 9. The apparatus of claim 8, further comprising:
2 means for discarding the cache notification event if
3 the cache notification event is invalid.

1 10. The apparatus of claim 7, wherein the cache
2 notification event is one of an add event, an update
3 event, and an invalidation event.

1 11. The apparatus of claim 7, wherein the time relative
2 information is an expiration value.

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1 12. The apparatus of claim 11, wherein the expiration
2 value is one of a discrete time and an amount of time
3 relative to a created time.

1 13. A cache component, in a server device, for managing
2 a cache in a distributed caching environment, the cache
3 component comprising:
4 a core cache that stores cache entries; and
5 a cache auditor that performs operations on entries
6 in the core cache,
7 wherein the cache auditor receives a cache
8 notification event from a sending device, wherein the
9 cache notification event includes time relative
10 information and a clock value for the sending device;
11 determines a clock delta by determining a difference
12 between the local clock and the clock value of the
13 sending device; and adjusts the time relative information
14 in the cache notification event based upon the clock
15 delta.

1 14. The cache component of claim 13, wherein the cache
2 auditor validates the cache notification event.

1 15. The cache component of claim 14, wherein the cache
2 auditor discards the cache notification event if the
3 cache notification event is invalid.

1 16. The cache component of claim 13, wherein the cache
2 notification event is one of an add event, an update
3 event, and an invalidation event.

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1 17. The cache component of claim 13, wherein the time
2 relative information is an expiration value.

1 18. The cache component of claim 17, wherein the
2 expiration value is one of a discrete time and an amount
3 of time relative to a created time.

1 19. A computer program product, in a computer readable
2 medium, for managing a cache in a distributed caching
3 environment, the computer program product comprising:
4 instructions for receiving a cache notification
5 event from a sending device, wherein the cache
6 notification event includes time relative information and
7 a clock value for the sending device;
8 instructions for determining a clock delta by
9 determining a difference between the local clock and the
10 clock value of the sending device; and
11 instructions for adjusting the time relative
12 information in the cache notification event based upon
13 the clock delta.

1 20. The computer program product of claim 19, wherein
2 the time relative information is an expiration value.